



Department of  
Toxic Substances  
Control

*The Mission of the  
Department of  
Toxic Substances  
Control is to  
provide the highest  
level of safety, and  
to protect public  
health and the  
environment from  
toxic harm.*



State of California



California  
Environmental  
Protection Agency

Fact Sheet, June 2009

## Draft Closure Plan for Building 419 Lawrence Livermore National Laboratory



*Figure 1. View of Building 419 Looking West*

The Department of Toxic Substances Control (DTSC) invites you to review and comment on the draft Closure Plan for Building 419 (B-419) at the Lawrence Livermore National Laboratory (LLNL) Site. The LLNL is located at 7000 East Avenue, Livermore, Alameda County and B-419 is on Avenue F located in the southeastern quadrant of the Site. The U.S. Environmental Protection Agency identification number for this facility is CA2890012584.

### **PUBLIC COMMENT PERIOD June 8, 2009 to July 24, 2009**

The 45-day public comment period will begin on June 8, 2009 and ends July 24, 2009. DTSC encourages you to review and comment on the Draft Closure Plan. All comments should be received no later than July 24, 2009. Please submit comments to:

Ryan Batty  
Project Manager  
8800 Cal Center Drive  
Sacramento, CA 95826  
[RBatty@dtsc.ca.gov](mailto:RBatty@dtsc.ca.gov)

At this time, a Public Hearing has not been scheduled; if DTSC receives a request one will be scheduled. To request a Public Hearing be held, please contact Wayne Hagen, Public Participation Specialist at (510) 540-3911 (Information on Page 4). DTSC Staff are available to address, one-on-one, any questions or concerns from the public that may not need addressing through submitting formal comments.

**Informacion en Espanol, llame a Jesus Cruz al 1 (888) 495-5651**



## LLNL Site History

In 1942, the U.S. Navy purchased 629 acres from the Wagon Ranch for use as the Livermore Naval Air Station (NAS). The NAS at Livermore was an active air base during World War II and after the war operated as a home for Naval Reserve aircraft. In 1950, the NAS installation was transferred to the Atomic Energy Commission. Their initial research included the development of nuclear weapons. In 1952, LLNL was founded by the U.S. Department of Energy (DOE). LLNL is currently administered by Lawrence Livermore National Security, LLC (LLNS). The LLNL facility conducts research in nuclear weapons, magnetic fusion energy, laser fusion and laser isotope separation, biomedical and environmental sciences, and applied energy technology.

### Building 419

In the 1940's, the U.S. Navy constructed Building 419 (B-419). The building was initially used for aircraft repair and maintenance.

In 1991, when LLNL decided to discontinue use of B-419, the following operations were taking place.

- Room 124 – hazardous waste size reduction;
- Room 155 – solidification of hazardous and mixed waste;
- Room 167 – solidification of hazardous and mixed waste;
- Below grade tank vault – collection of liquid from floor drains; and
- North yard – waste staging.

When the Resource Conservation and Recovery Act (RCRA) was passed activities that fell under the new Act were given interim status until the units could be permitted. B-419 fell under RCRA and was given interim status. LLNL discontinued use of B-419 before the initial RCRA Permit was issued so B-419 has remained in interim status.

### Past Closure Activities

In 1994, two floor drain collection tanks and some of the under ground piping were removed from a vault adjacent to B-419 under the supervision of Alameda County health officials. Due to the discovery of mercury in the soil below room 167 the removal of piping was not completed.

There is currently no hazardous waste stored in B-419 and all equipment used in the waste treatment process was removed, decontaminated, and disposed of as either hazardous or non-hazardous waste. Some equipment was deemed to have added radioactivity and was disposed of in accordance with DOE guidelines. B-419's structure (walls, ceiling, and roof) was also partially decontaminated. This draft Closure Plan will complete the closure of B-419.

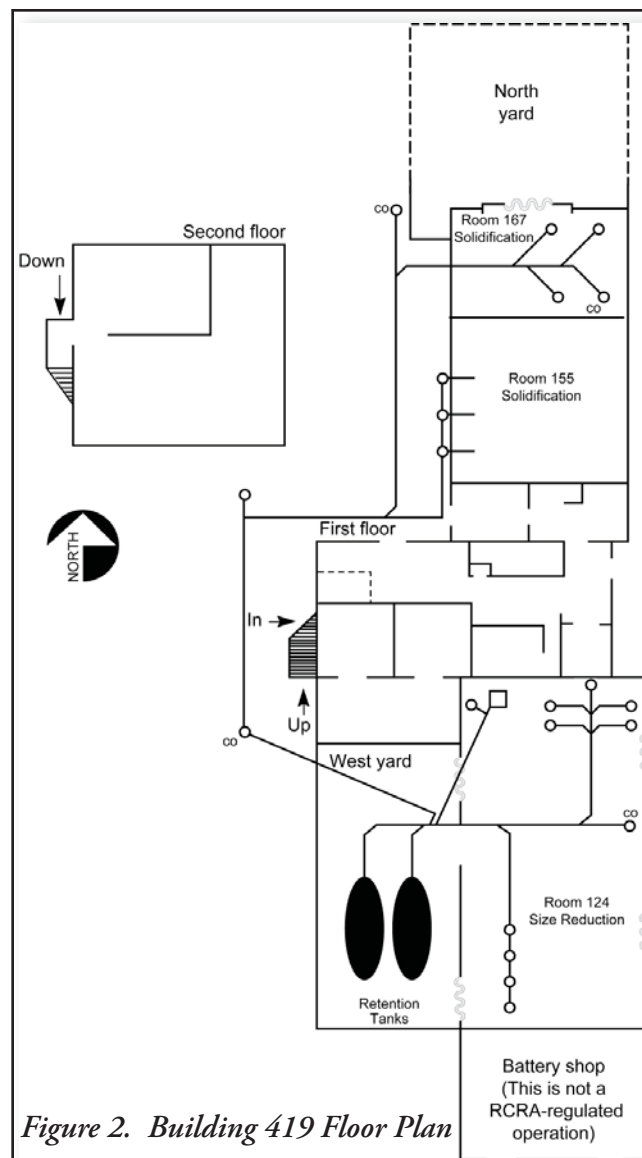


Figure 2. Building 419 Floor Plan

### Closure Performance Objective

B-419's structure will be sampled for waste characterization purposes and will then be demolished. Debris generated during the closure will be disposed of at a licensed facility outside of California.

A list of constituents of potential concern (COPCs) has been developed for the project. The list was generated based on a records search and historical data. The list includes volatile organic compounds, heavy metals and radionuclides. The full list of COPCs can be found in the Closure Plan. The closure objective is to cleanup soils to background levels for inorganic metals and non-detectable levels of organic chemicals. If these clean up targets cannot be met then the facility will meet health or risk based cleanup standards.

If those standards cannot be achieved then LLNL will be required to submit a post-closure permit application to DTSC. A post closure permit sets out how LLNL will monitor or take care of a site to ensure that any remaining contaminants do not impact the human health or the environment now or into the future.

The implementation of the Closure Plan will be overseen by an engineer registered in the state of California. The sampling results and closure certification report will be reviewed by DTSC as a part of closure verification.

Due to the relatively complex nature of the closure, including the range of COPCs, the Closure Plan has been prepared based on a 21-month schedule. This requires an extension to the 180-day (6 month) closure requirement found in the California Code of Regulations. DTSC believes that an extension is warranted and plans to authorize the extension.

### **Regulatory - Interim Status Closure**

The requirements for the closure of units in RCRA interim status are the same as the closure requirements for permitted units. DTSC reviewed the draft Closure Plan and issued a technical completeness determination to LLNL in a letter dated June 3, 2009. DTSC will hold a 45-day public comment period to allow for public input on the proposed Closure Plan. DTSC staff are prepared to address any questions one-on-one with the public. DTSC may hold a public hearing upon request.

After the public comment period has closed, DTSC will review all comments received and will issue a formal Response to Comments document. The Response to Comment document will contain a formal response to comment received and include DTSC's decision on the closure plan.

DTSC will either:

1. Approve the closure plan unchanged,
2. Approve the closure plan with conditions, or
3. Reject the closure plan for LLNL revision.

### **California Environmental Quality Act**

Approval of the B-419 Closure plan by DTSC constitutes a project per California Code of Regulations, title 14, section 15678. The project is subject to the requirements of the California Environmental Quality Act.

DTSC has conducted an Initial Study for this project and based on the findings of the Initial Study a draft Negative Declaration has been prepared. The Negative Declaration states that DTSC does not believe that implementation of this project could have significant impact on the environment.

### **Information Repositories**

The full LLNL administrative record is available for review at DTSC's Cal Center Office. Copies of the draft Closure Plan, Initial Study, Negative Declaration, and other project related documents can be found at the Information Repositories below.

Civic Center Library  
1188 South Livermore Avenue  
Livermore, California 94550  
(925) 373-5500 - Call for hours of operation.

DTSC Berkeley Office  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710  
(510) 540-2122 - Call for an appointment.

DTSC Cal Center Office  
8800 Cal Center Drive  
Sacramento, California 95826  
(916) 255-3758 - Call for an appointment.

Many of the documents contained in the administrative record are also available on the DTSC website at the following link:

[www.dtsc.ca.gov/HazardousWaste/Projects/LLNL.cfm](http://www.dtsc.ca.gov/HazardousWaste/Projects/LLNL.cfm)

and through DTSC's EnviroStor Database at

[http://www.envirostor.dtsc.ca.gov/public/hwmp\\_profile\\_report.asp?global\\_id=CA2890012584](http://www.envirostor.dtsc.ca.gov/public/hwmp_profile_report.asp?global_id=CA2890012584)



## Contact Information

For questions regarding the Closure Plan, contact Ryan Batty, the DTSC project manager at (916) 255-6699 or [RBatty@dtsc.ca.gov](mailto:RBatty@dtsc.ca.gov).

For question regarding the public participation contact Wayne Hagen, Public Participation Specialist at (510) 540-3911 or [WHagen@dtsc.ca.gov](mailto:WHagen@dtsc.ca.gov).

For media questions, please contact Angela Blanchette, DTSC Public Information Officer, at (510) 540-3732 or [ABlanchette@dtsc.ca.gov](mailto:ABlanchette@dtsc.ca.gov).

## LLNL Project Staff

The contact for the LLNL project is Vicki Salvo, LLNL Environmental Analyst, at (925) 423-5432 or [Salvo1@llnl.gov](mailto:Salvo1@llnl.gov).

## Notice to Hearing Impaired Individuals

TDD users can obtain information about the site by using the California State Relay Service (888) 877-5378. To reach the Public Participation Specialist call 1 (866) 495-5651.

